

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P531236

Luminaire Tested: **GALN-SA6C-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33143 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

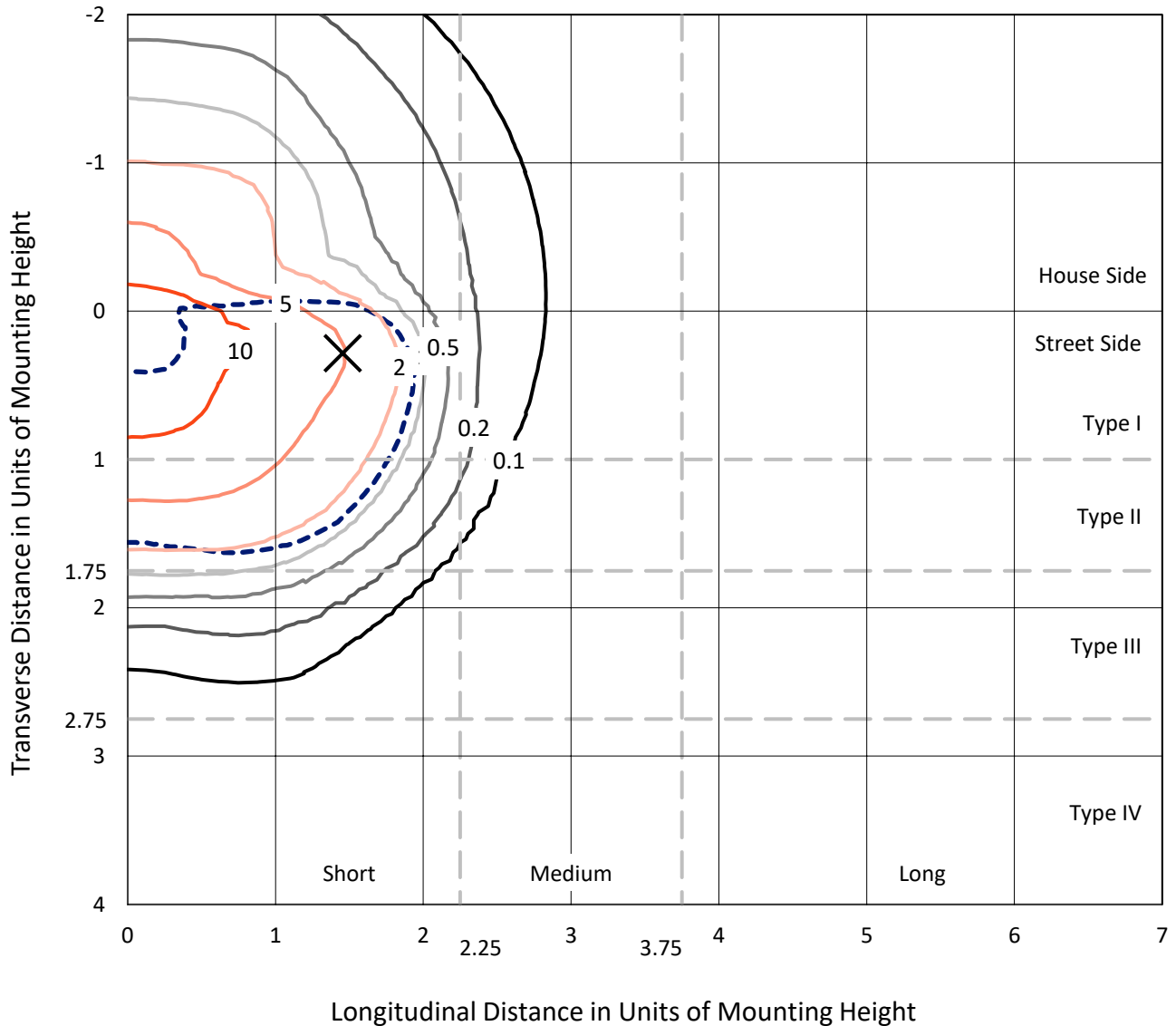
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

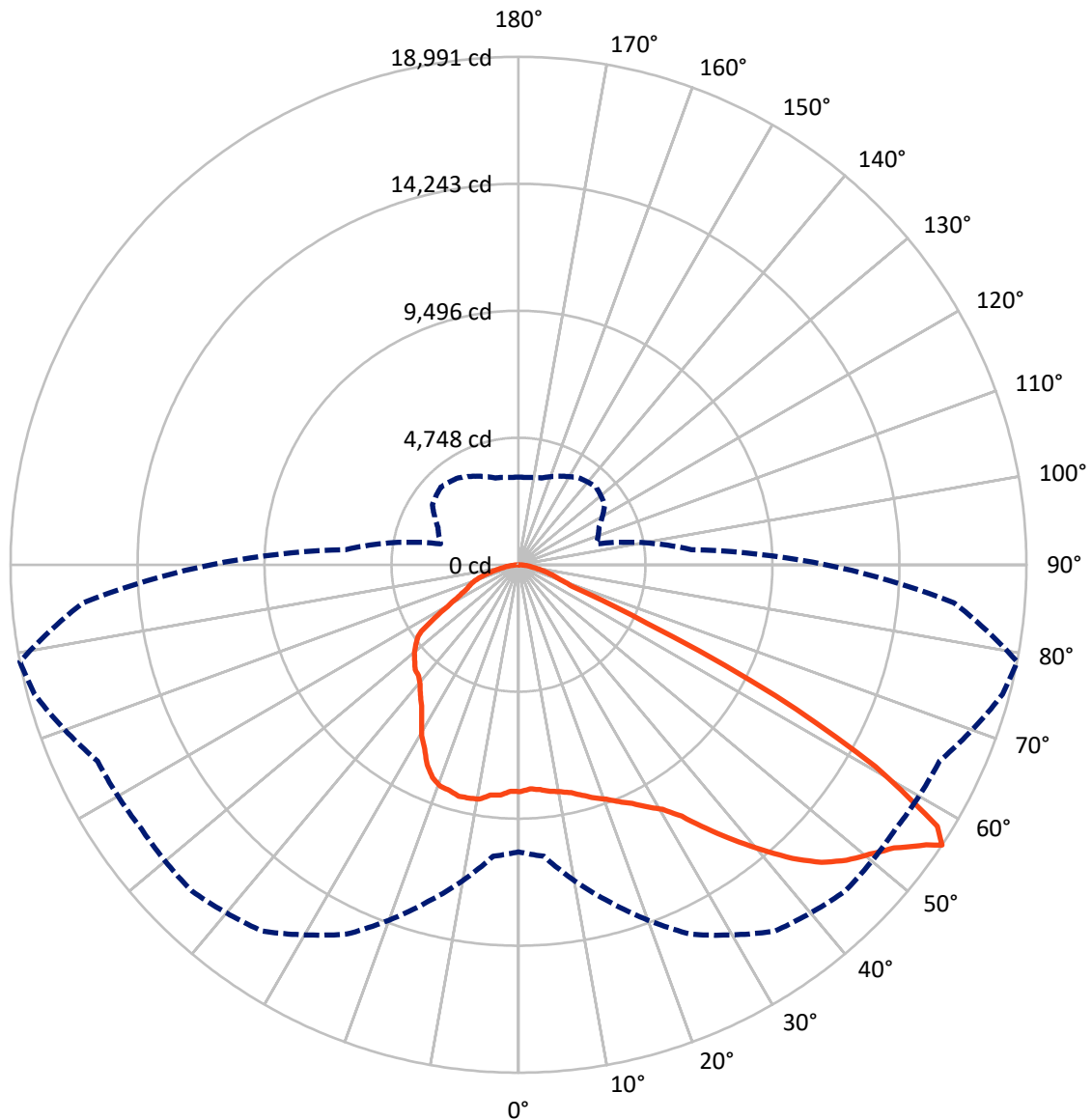
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9787.8	0.0	9787.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	23355.2	0.0	23355.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	33143.0	0.0	33143.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.0	2.3
10°-20°	2110.0	6.4
20°-30°	3609.8	10.9
30°-40°	5532.4	16.7
40°-50°	7477.1	22.6
50°-60°	8587.7	25.9
60°-70°	3914.5	11.8
70°-80°	965.1	2.9
80°-90°	175.4	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	33143.0	100.0
0°-180°	33143.0	100.0

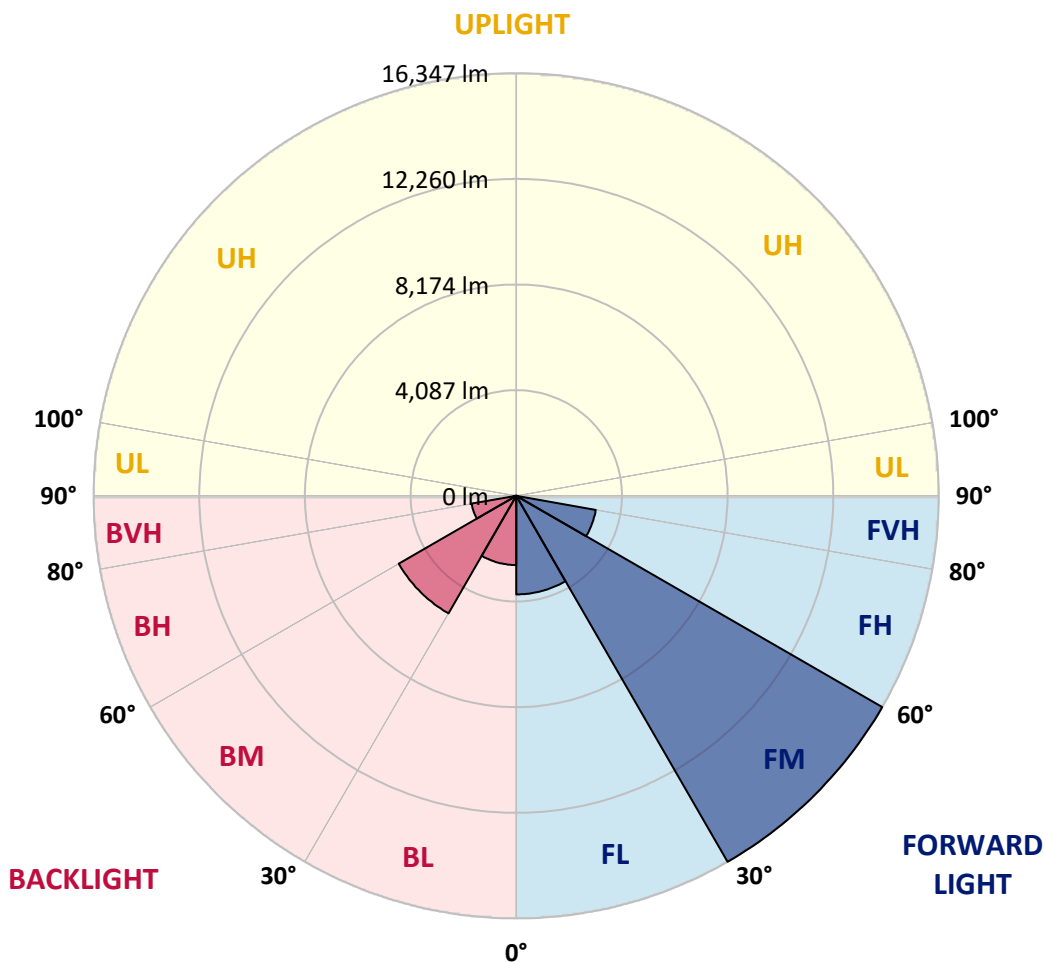


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3813.4	11.5			
FM (30°-60°)	16347.1	49.3			
FH (60°-80°)	3124.6	9.4			G2/5000
FVH (80°-90°)	70.0	0.2			G1/100
BL (0°-30°)	2677.4	8.1	B4/5000		
BM (30°-60°)	5250.1	15.8	B4/8500		
BH (60°-80°)	1755.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	105.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8480.0	8480.0	8480.0	8480.0	8480.0	8480.0	8480.0	8480.0	8480.0	8480.0	8480.0
2.5°	8067.1	8046.5	8096.0	8133.2	8178.6	8236.4	8265.3	8281.8	8426.3	8389.2	8500.6
5°	7893.7	7840.1	7877.2	7906.1	7984.6	8054.7	8133.2	8257.0	8389.2	8447.0	8583.2
7.5°	7741.0	7712.1	7703.8	7724.5	7831.8	7922.6	8058.9	8240.5	8455.2	8550.2	8628.6
10°	7489.1	7447.9	7509.8	7646.0	7674.9	7864.8	8021.7	8281.8	8467.6	8632.7	8863.9
12.5°	7377.7	7336.4	7348.8	7427.2	7629.5	7811.2	7996.9	8290.1	8682.3	8748.3	9058.0
15°	7555.2	7513.9	7526.3	7505.7	7699.7	7794.6	8087.8	8455.2	8830.9	8942.4	9272.7
17.5°	7959.8	7963.9	7910.2	7864.8	7819.4	8021.7	8224.0	8554.3	8888.7	9169.4	9417.2
20°	8731.8	8595.6	8488.2	8232.3	8162.1	8248.8	8504.8	8822.6	9124.0	9355.2	9636.0
22.5°	9326.3	9338.7	9186.0	8764.8	8612.1	8649.3	8868.1	9128.2	9458.4	9623.6	9945.6
25°	10189.2	10102.5	9937.3	9602.9	9260.3	9289.2	9450.2	9685.5	9776.3	9891.9	10242.9
27.5°	10977.7	11002.5	10676.4	10362.6	9937.3	9854.8	10143.8	10185.1	10032.3	10251.1	10370.8
30°	11778.7	11758.0	11543.3	11175.9	10758.9	10775.4	10903.4	10701.1	10490.6	10610.3	10692.9
32.5°	12608.5	12373.2	12364.9	12034.6	11716.7	11564.0	11407.1	11506.2	11180.0	11204.8	11126.4
35°	13273.2	13306.2	13116.3	12881.0	12724.1	12455.7	12026.4	12203.9	12142.0	12113.1	11774.5
37.5°	13756.2	13628.2	13723.2	13644.8	13496.1	13161.7	12715.8	12885.1	12914.0	13054.4	12662.2
40°	14152.6	14098.9	14350.7	14392.0	14288.8	13566.3	12765.4	13269.1	13702.6	14008.1	13541.5
42.5°	14342.5	14458.1	14722.3	15040.2	14809.0	14037.0	13021.4	13562.2	14528.3	15011.3	14375.5
45°	14598.4	14449.8	14842.0	15424.2	15428.3	14433.3	13269.1	13958.5	15172.3	15874.2	14945.2
47.5°	14338.4	14412.7	14817.3	15556.3	15746.2	14850.3	13937.9	14520.0	15882.4	16505.8	15473.7
50°	13756.2	13904.9	14643.9	15411.8	15985.6	15292.0	14705.8	15126.9	16538.9	17013.6	15560.4
52.5°	13149.3	13231.9	14387.9	15523.2	16093.0	15861.8	15733.8	15965.0	17339.8	17587.5	15667.7
55°	11497.9	11890.1	13541.5	15473.7	16617.3	16889.8	16790.7	17129.2	18248.1	18495.8	16254.0
56°	10734.2	10940.6	13033.7	15242.5	16720.5	17265.5	17215.9	17368.7	18731.1	18991.2	16344.8
57.5°	9322.2	9338.7	11114.0	14218.6	16332.4	17376.9	17327.4	17447.1	18636.1	18458.6	15548.0
60°	5833.6	6089.6	7563.4	10936.5	13888.3	16121.9	16402.6	15440.7	15713.1	15337.5	12096.6
62.5°	3022.1	2984.9	3963.4	6395.1	9219.0	11543.3	11803.4	11758.0	11336.9	10787.8	7902.0
65°	1506.9	1515.2	2072.5	3166.6	4723.0	6044.2	6770.8	6849.2	5730.4	5272.1	3748.7
67.5°	1094.1	1135.3	1490.4	1936.3	2225.3	2489.5	3051.0	2993.2	2266.6	2155.1	1998.2
70°	850.5	887.6	1209.7	1478.0	1341.8	1341.8	1461.5	1511.0	1614.3	1659.7	1713.3
72.5°	619.3	648.2	924.8	1019.7	879.4	945.4	1094.1	1209.7	1317.0	1333.5	1395.4
75°	425.2	450.0	606.9	561.5	528.5	652.3	800.9	908.3	986.7	1028.0	1065.2
77.5°	276.6	284.9	346.8	293.1	338.5	421.1	520.2	611.0	689.5	722.5	730.7
80°	123.9	136.2	148.6	185.8	235.3	301.4	371.6	445.9	495.4	507.8	532.6
82.5°	70.2	70.2	90.8	132.1	173.4	218.8	268.4	322.0	379.8	392.2	388.1
85°	37.2	37.2	53.7	78.4	107.3	128.0	123.9	128.0	136.2	156.9	152.8
87.5°	12.4	12.4	16.5	16.5	20.6	24.8	20.6	28.9	37.2	37.2	37.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8480.0	8480.0	8480.0	8480.0	8480.0	8480.0	8480.0	8480.0	8480.0	8480.0	8480.0
2.5°	8467.6	8504.8	8455.2	8562.6	8562.6	8541.9	8438.7	8471.7	8496.5	8496.5	8517.1
5°	8628.6	8616.2	8649.3	8521.3	8442.8	8413.9	8244.7	8162.1	8091.9	8087.8	8025.8
7.5°	8719.4	8686.4	8674.0	8579.1	8232.3	8021.7	7658.4	7447.9	7402.4	7241.4	7303.4
10°	8863.9	8925.9	8863.9	8347.9	7864.8	7381.8	7026.7	6700.6	6572.6	6469.4	6407.5
12.5°	9161.2	9132.3	8773.1	8075.4	7398.3	6824.4	6296.0	5953.3	5825.3	5734.5	5726.3
15°	9413.0	9268.5	8719.4	7646.0	6671.7	6060.7	5627.2	5383.6	5325.8	5334.0	5371.2
17.5°	9499.7	9400.6	8438.7	7200.1	6130.9	5412.5	5210.2	5173.0	5226.7	5288.6	5305.1
20°	9636.0	9479.1	8323.1	6593.2	5462.0	5007.9	4995.5	5127.6	5226.7	5317.5	5329.9
22.5°	9920.8	9524.5	7947.4	6019.4	5003.8	4888.2	5007.9	5119.4	5272.1	5346.4	5280.4
25°	10003.4	9425.4	7419.0	5329.9	4714.8	4813.9	4941.8	5094.6	5201.9	5243.2	5272.1
27.5°	10073.6	9272.7	6704.7	4871.7	4623.9	4809.7	4941.8	5069.8	5127.6	5164.8	5197.8
30°	10271.8	9227.2	6085.4	4566.1	4566.1	4727.2	4896.4	4929.5	5007.9	5053.3	5111.1
32.5°	10370.8	8913.5	5449.6	4372.1	4508.3	4768.4	4780.8	4842.8	4846.9	4884.0	4822.1
35°	10630.9	8690.5	4859.3	4231.7	4533.1	4727.2	4789.1	4751.9	4549.6	4450.5	4471.2
37.5°	10820.9	8579.1	4434.0	4215.2	4537.2	4772.6	4805.6	4524.9	4314.3	4149.2	4190.4
40°	11332.8	8302.5	4112.0	4186.3	4574.4	4822.1	4731.3	4425.8	4046.0	3876.7	3847.8
42.5°	11725.0	8104.3	3909.7	4153.3	4603.3	4892.3	4694.1	4227.6	3839.5	3682.6	3723.9
45°	12179.1	8058.9	3802.4	4161.5	4652.8	4929.5	4648.7	4074.8	3662.0	3600.1	3587.7
47.5°	12340.1	7732.7	3686.8	4091.4	4640.5	4917.1	4496.0	3959.3	3595.9	3604.2	3637.2
50°	12071.8	7398.3	3600.1	3946.9	4557.9	4805.6	4256.5	3806.5	3558.8	3662.0	3719.8
52.5°	11729.1	7055.6	3422.5	3752.8	4388.6	4632.2	4145.0	3798.2	3521.6	3488.6	3501.0
55°	11832.3	6774.9	3174.8	3488.6	4116.1	4310.2	4021.2	3719.8	3430.8	3306.9	3348.2
56°	11497.9	6485.9	3013.8	3323.5	3930.4	4103.7	3959.3	3649.6	3356.5	3273.9	3273.9
57.5°	10552.5	5515.7	2803.3	3059.2	3538.1	3744.6	3839.5	3608.3	3273.9	3129.4	3133.5
60°	7782.3	3922.1	2514.3	2695.9	2931.2	3096.4	3538.1	3492.7	3067.5	2968.4	2931.2
62.5°	4797.3	2865.2	2307.8	2378.0	2497.8	2634.0	3088.1	3162.4	2848.7	2741.3	2716.6
65°	2687.7	2192.2	2151.0	2179.9	2237.7	2307.8	2563.8	2729.0	2514.3	2349.1	2340.9
67.5°	1965.2	1961.0	1994.1	2018.8	2043.6	2043.6	2105.5	2171.6	2142.7	2010.6	1998.2
70°	1746.4	1758.7	1783.5	1787.6	1795.9	1767.0	1717.5	1696.8	1729.9	1647.3	1630.8
72.5°	1440.9	1482.1	1511.0	1515.2	1469.8	1432.6	1366.5	1296.4	1271.6	1255.1	1250.9
75°	1106.4	1135.3	1147.7	1143.6	1127.1	1073.4	995.0	924.8	879.4	829.8	854.6
77.5°	747.3	788.5	809.2	809.2	784.4	701.8	664.7	611.0	565.6	511.9	520.2
80°	524.3	553.2	586.2	582.1	540.8	499.6	445.9	396.3	359.2	317.9	313.8
82.5°	392.2	408.7	425.2	417.0	388.1	346.8	309.6	264.2	222.9	194.0	194.0
85°	140.4	152.8	185.8	194.0	210.6	210.6	177.5	148.6	119.7	99.1	99.1
87.5°	41.3	41.3	45.4	45.4	41.3	45.4	37.2	41.3	45.4	28.9	28.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)